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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE APPLICATION OF:

Hiroyuki OCHIAI, et al.

SERIAL NO: 10/560,070

GROUP: 2190

FILED:

December 9, 2005

EXAMINER:

FOR:

METAL PRODUCT PRODUCING METHOD, METAL PRODUCT, METAL COMPONENT CONNECTING METHOD, AND CONNECTION STRUCTURE

LETTER

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Singaporean Written Opinion for the Examiner's consideration. The reference(s) cited therein have been previously filed on March 7, 2006.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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In Reply Please Quote Our Reference

Your Ref

: 1026219PAT/ISHIKAWA/VHS/PS

Our Ref Date

2005080544/061122/TMRMI/1105 22/11/2006

Writer's Direct Line: 63302748

DONALDSON & BURKINSHAW P.O. BOX 3667 ROBINSON ROAD POST OFFICE SINGAPORE 905667

Dear Sir.

Singapore Patent Application No.: 200508054-4

Title of invention: METAL PRODUCT PRODUCING METHOD, METAL PRODUCT, METAL

COMPONENT CONNECTING METHOD, AND CONNECTION STRUCTURE

Applicant(s): ISHIKAWAJIMA-HARIMA HEAVY INDUSTRIES CO., LTD. (JP)

INVITATION TO RESPOND TO WRITTEN OPINION

We forward with this letter a copy of the Search Report and Written Opinion drawn up by the Examiner in connection with your request for a Search and Examination Report.

You are invited to respond to the opinion by submitting:

- (a) Written submissions or arguments disagreeing with the Examiner's opinion and/or
- (b) An amendment of the specification of the application.

If you intend to respond, the response must be filed within 5 months from the date of this letter. You are also advised to inform us early if you do not intend to respond.

The Examiner will proceed to establish the Examination Report if no response is received by the end of the prescribed period.

If you have any further queries, please do not hesitate to contact the undersigned.

Thank you.

Yours faithfully,

for REGISTRAR OF PATENTS

SINGAPORE







WRITTEN OPINION

| | * | Date of mailing | 2 4 OCT 2006 | | | |
|--|--|--|--|--|--|--|
| | | lay/month/year | | | | |
| Applicant's or agent's file reference | | REPLY DUE | within FIVE MONTHS of the date of r's letter enclosing the written opinion | | | |
| 1026219PAT/ISHIKAWA/VHS/PS | <u> </u> | | | | | |
| Application No. | Application Filing Dat | Date (day/month/year) Priority Date (day/month/year) | | | | |
| SG 200508054-4 | 11 June 2004 | | 11 June 2003 | | | |
| International Patent Classification (IPC) (as | indicated in the search | report) | | | | |
| Int. Cl. | | | | | | |
| | 0 (2006.01) | | | | | |
| , , | (0 (2006.01) | • | | | | |
| Action Date: 16 October 2006 | | | | | | |
| Applicant ISHIKAWAJIMA-HARIMA HE | AVY INDUSTIRES | CO LTD | | | | |
| ISINKA WAJIWI - ILII III. | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
| 1. This First written opinion consists of | a total of 5 sheets. | | | | | |
| 2. This opinion contains indications relati | ing to the following item | ıs:. | | | | |
| I X Basis of the opinion | | | | | | |
| II Non-establishment of o | pinion with regard to no | velty, inventive step | and industrial applicability | | | |
| III X Lack of unity of inventi | on · | | | | | |
| IV X Reasoned statement wit citations and explanation | h regard to novelty, invents supporting such state | entive step or industr ment | ial applicability; | | | |
| V Certain documents cited | d | | | | | |
| VI Certain defects in the a | pplication | | | | | |
| VII X Certain observations or | the application | | · | | | |
| | | | | | | |
| 3. This opinion is based upon the assumption that the priority claim is valid. | | | | | | |
| 4. The search report used was issued by the Australian Patent Office, and the date of completion is: 16 October 2006 | | | | | | |
| 5. If no reply is filed, the examination report will be established on the basis of this opinion. | | | | | | |
| 6. The date by which the examination report will be established is: 11 September 2007 | | | | | | |
| | | | | | | |
| Name and mailing address | | Authorized Officer | r | | | |
| Name and mailing address AUSTRALIAN PATENT OFFICE | | | • | | | |
| PO BOX 200, WODEN ACT 2606, AUSTR | ALIA | | | | | |
| E-mail address: pct@ipaustralia.gov.au Facsimile no. 61 2 62853929 | | GREGORY DI | VEN | | | |
| | | <u></u> | | | | |

WRITTEN OPINION

Application No.

SG 200505054-4

| I. | Basis of the opini | ion | |
|-----|-------------------------|---|--------------|
| 1. | This opinion has been | drawn on the basis of: | |
| | the application a | as originally filed. | |
| | X the description, | pages 1-6, 8-11, 14-16, 20 and 22, as originally filed, | |
| | | pages 7, 12, 13, 17, 18, 19, 21 and 23, filed with the | he request, |
| | | pages , received on with the letter of | |
| | X the claims, | pages , as originally filed, | |
| | | pages 24-27, filed with the request, | |
| | | pages , received on with the letter of | |
| | X the drawings, | sheets/fig. 1-14-14/14, as originally filed, | |
| | | sheets/fig. , filed with the request, | |
| | • | sheets/fig. , received on with the letter of | |
| | the sequence li | isting part of the description: | |
| | | pages , as originally filed | |
| | | pages , filed with the demand | |
| | • | pages , received on with the letter of | |
| 2 | . The amendments hav | ve resulted in the cancellation of: pages: sheets of drawings | s/figures No |
| | · | nas been established as if (some of) the amendments had | |
| 3 | This opinion h | e disclosure as filed, as indicated in the Supplemental Bo | x. |
| 4 | | | |
| | . Additional cooks that | | · |
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WRITTEN OPINION

Application No.

SG 200505054-4

| III. | Lack | of | unity | of | invention |
|------|------|----|-------|----|-----------|
|------|------|----|-------|----|-----------|

1. This Office found multiple invention in this application, as follows:

The Australian Patent Office has determined that the application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to from a single general inventive concept.

- 1. Claims 1-14 are directed to a method for producing a metal product comprising molding a main body of metal, removing a portion defining a defect to form a recess portion, depositing a deposition from an electrode to fill the recess. It is considered that the method comprises a first special technical feature.
- 2. Claims 15-20 are directed to a method of joining pieces of metal comprising metal components with a bevelled edge which define a recess portion when butted against each other and depositing a deposition form an electrode into the recess portion. It is considered that the method comprises a second special technical feature.

The common feature linking these sets of claims relates to forming a recess in the metal, or between metal strips and depositing a deposition from an electrode into the recess. Such methods describe standard methods of welding well known to people skilled in welding. Accordingly the claims do not relate to one invention or to a single inventive concept, a priori.

| \cdot . | •• |
|---|-----------------------------------|
| | |
| 2. Consequently, the following parts of the application were the subject of examina | tion in establishing this report: |
| X all parts. | |
| the parts relating to claims Nos. | |
| | |

WRITTEN OPINION

Application No.

SG 200505054-4

| IV. | Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations | | | | | | |
|-----|---|---|--|--|--|--|--|
| | supporting such statement | • | | | | | |

| Claims | YES |
|-------------|--|
| Claims 1-20 | NO |
| Claims | YES |
| Claims 1-20 | NO |
| • | YES |
| Claims | NO |
| | Claims 1-20 Claims Claims 1-20 Claims 1-20 |

2. Citations and explanations

The following documents identified in the Search Report have been considered for the purposes of this report:

-JP 62-161493

JP 09-192937

JP 04-309452

JP 61-017398

Novelty (N) and Inventive Step (IS)

The invention defined in claims 1-20 is not novel (and does not involve an inventive step) when compared with the JP 62-161493 prior art document that discloses all the essential features of the invention claimed.

JP 62-161493 describes the repair of a metal tool by creating a recess in the tool where the crack exists and depositing into the recess using an electrode.

Industrial Applicability (IA)

The claims are related to products capable of commercial application.

WRITTEN OPINION

Application No.

SG 200505054-4

| /II. Certain | observations on the applicat | tion | | | |
|----------------------------|---|------------------------------|-----------------------|----------------------------|---------------|
| he following upported by t | observations on the clarity of he description, are made: | f the claims, description, a | and drawings or on th | e question whether the cla | ims are fully |
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| | aimed invention is patentable | | | | |
| The cl | aimed invention is unpatental | ble according to Section 1 | 3(2) because: | | |
| · | | • | | | • |
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